

Serial No. 10/607,012      ARL 03-02      Interview with Examiner and Amendment

**Amendments To The Specification:**

Please replace paragraph [0022] with the following amended paragraph:

[0022] In order to modify the properties of the resulting polymer, the proton conductive first polymer monomer is optionally copolymerized with a copolymer monomer. The function of the copolymer within the present invention in combination with the proton conductive first polymer is to impart ~~insolubility~~ solubility in water of the complete copolymer and to provide mechanical stability. A copolymerization monomer, when present, typically represents 10 to 85 total weight percent of the resulting dry inventive IPN film. It is recognized that many other monomers are operative herein, these other monomers illustratively include 2-hydroxy ethyl methacrylate, hydroxypropyl methacrylate, 4-hydroxybutyl methacrylate, 2-hydroxyethyl acrylate, 2-hydroxypropyl acrylate, methyl methacrylate, N-t-butylacrylamide, N,N'-dimethylacrylamide, (vinyl)sulfonic acid, styrene, styrenesulfonic acid, as well as many other acrylamides, acrylates, hydroxyalkyl acrylates and methacrylates. A preferred copolymer for AMPS is 2-hydroxyethyl methacrylate (HEMA), generally in the weight percent range of 20 wt. % to 75 wt. % of the total polymer composition.